

Procter & Gamble Fabric & Home Care Division Ivorydale Technical Center 5299 Spring Grove Avenue Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #: FH/A/2001/HEHH-54RFKS Issue Date: 02/07/02 Supersedes: US053EB Issue Date: 2/17/00

Identity: Automatic Dishwashing Dec Brands: CASCADE TABLETS	SECTION I - PRODUCT IDENTIFICATION tergent Tablet			
Hazard Rating:	Health:	4= EXTREME		
	Flammability: 0	3= HIGH		
	Reactivity: 0	2= MODERATE		
		1= SLIGHT		
Emergency Telephone Number: 1-800-844-2544 or call Local Poison Control Center				

SECTION II - COMPOSITION AND INGREDIENTS

<u>Ingredients/Chemical Name</u>: Complex sodium phosphates and sodium carbonate, enzymes, oxygen bleach, nonionic wetting agents, sodium silicate, binding agents, dyes, perfume.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200., and/or WHMIS under the HPA:

Chemical Name	Common Name	CAS No.	Recommended Limits	Composition Range	LD50 and/or LC50
Carbonic Acid, Disodium Salt	Sodium Carbonate (Soda ash)	497-19-8	N/K	15-40%	1.9 g/kg (rats, oral)
Perboric acid, sodium salt	Sodium Perborate	7632-04-4	N/K	10-30%	>1.1 g/kg (rats, oral)
Silicic acid, disodium salt	Sodium Silicate	13870-28-5	N/K	5-10%	~2.5 g/kg (rats, oral)
Silicic acid, sodium salt	Sodium Silicate	1344-09-8	N/K	3-7%	~1.8 g/kg (rats, oral)
Subtilisin	Proteolytic enzyme	9014-01-1	ACGIH TLV: 0.00006 mg/m ³	0.1-1.0%	> 5 g/kg (rats, oral)
Amylase	Amylase enzyme	9000-90-2	ACGIH TLV: 0.00006 mg/m ³	0.1-1.0%	> 5 g/kg (rats, oral)

Under normal consumer use, this product would not constitute a hazardous product under OSHA Hazard Communication. With increased industrial exposure this mixture, when tested as a whole, is considered an inhalation hazard within the meaning of the OSHA Hazard Communication Standard.

SECTION III - HAZARDS IDENTIFICATION Health Hazards (Acute and Chronic): Ingestion: Tablet or tablet fragments may present a choking hazard. Eye Contact: May cause moderate, transient irritation, including redness. Skin: May cause moderate, transient irritation, including dryness. Inhalation: Can cause mild respiratory irritation. Signs and Symptoms of Exposure: Ingestion: Ingestion may result in tablet lodging causing moderate to severe upper gastrointestinal irritation, burning, discomfort or corrosion of tissue which may impede a person's ability to speak or swallow. Eye Contact: Contact may cause moderate, transient irritation, including redness. Skin: Contact may cause moderate, transient irritation, including dryness. Inhalation: Repeated/prolonged exposure may cause mild respiratory irritation. Inhalation of high levels of enzyme containing dust from the tablets, which could potentially occur under some workplace conditions (such as manufacturing) may result in respiratory sensitization. Once sensitized, subsequent exposure may result in respiratory reactions in some individuals (hayfever like symptoms

SECTION IV - FIRST AID INFORMATION

and/or asthma). Due to the very low level of respirable dust in this product, sensitization under normal

Emergency and First Aid Procedures:

Ingestion: If swallowed, do NOT induce vomiting. Give a glassful of milk or water and call a poison control

centre or physician immediately.

recommended use conditions would not occur.

Eye Contact: Flush eyes with water for 15 minutes.

Skin: Rinse exposed area with water.

Inhalation: Leave dusty area.

Other: Consumer product packages have a caution statement: "WARNING: Harmful if swallowed or put in mouth. Skin and eye irritant. KEEP OUT OF REACH OF CHILDREN. WARNING: Tablet fragments may present a choking beyond. Do not let children touch product in dishwesher. After placing tablet in dispenser cup, close

hazard. Do not let children touch product in dishwasher. After placing tablet in dispenser cup, close immedieately. Do not break tablets. Safely discard any tablet fragments. KEEP OUT OF REACH OF

CHILDREN.

SECTION V - FIRE FIGHTING INFORMATION					
Flash Point: N/A	Explosive Limits: LEL: N/A				
Method Used: N/A	UEL: N/A				
Extinguishing Mcdia: CO2, water, or dry chemical may be used.					
Special Fire Fighting Procedures: None.					
Unusual Fire Hazards: None known.					
Stability Unstable:	Conditions to Avoid: None known.				
Stable: 🛛					
Incompatibility (Materials to Avoid): None known.					
Hazardous Decomposition/By Products: None known.					
Hazardous Polymerization: May Occur.	Conditions to Avoid: None known.				
Will Not Occur. 🛛					

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None.

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL,

STATE/PROVINCIAL AND LOCAL REGULATIONS. Household solutions may be disposed of in sewer. Dry product

may be landfilled if acceptable to local landfill.

Steps To Be Taken in Case Material is Released or Spilled: Minimize dust levels while collecting product (see

"inhalation" health effects). Dispose of according to local regulations.

SECTION VII - HANDLING AND STORAGE

Precautions To Be Taken in Handling and Storing: Store in a cool, dry, ventilated area

Other Precautions: None.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

This section only applies to the product when used in an industrial setting.

Respiratory Protection (Specify Type): None required with normal use.

Ventilation: Local Exhaust: None.

Special: None.

Mechanical (General): General dilution ventilation is acceptable.

Other: None.

Eye Protection: If a splash is likely, use chemical goggles for protection.

Protective Gloves: Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

Other Protective Equipment: None required with normal use.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (° F): N/A

Vapor Pressure (mm Hg): N/A

Vapor Density (Air=1): N/A

Specific Gravity (H₂O=1): ~1.65

Percent Volatile by Volume (%): N/A

Evaporation Rate (nBuOAc=1): N/A

Odor Threshold: N/A

Coefficient of Water/Oil Distribution: N/A

pH (1% solution): 10.8

Viscosity: N/A Reserve Alkalinity: 13.5 at pH 9.5

Scooped Density: N/A Solubility in Water: Nearly 100% at 20°C

Appearance and Odor: White granular tablet with blue

and green speckles and blue dimple. Product is

perfumed.

Physical State: Solid at 20°C

SECTION X - STABILITY AND REACTIVITY

Possible Hazardous Reactions/Conditions: None known.

Conditions to Avoid: None known.

Materials to Avoid: None known.

Hazardous Decomposition Products: None known.

Other Recommendations: None.

SECTION XI - TOXICOLOGICAL INFORMATION

None available.

SECTION XII - ECOLOGICAL INFORMATION

Should not be disposed of directly into the environment.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS. Dry product may be landfilled if acceptable to local landfill.

SECTION XIV - TRANSPORT INFORMATION

The finished product is non-hazardous under DOT.

SECTION XV - ADDITIONAL REGULATORY INFORMATION

No components subject to California Prop. 65 All components are listed on US TSCA Inventory.

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified with Hazard Criteria of the Canadian Controlled Products Regulation (CPR) and this MSDS contains all information required by the Hazardous Products Act.

SECTION XVI - OTHER INFORMATION

**N/A. - Not Applicable

**N/K. - Not Known

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.